

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/561,345  
Source: IFWP  
Date Processed by STIC: 12/29/05

# ***ENTERED***



IFV9

## RAW SEQUENCE LISTING

DATE: 12/29/2005

PATENT APPLICATION: US/10/561,345

TIME: 15:00:36

Input Set : A:\05552.1463 Sequence Listing.txt

Output Set: N:\CRF4\12292005\J561345.raw

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3 <110> APPLICANT: Dade Behring Marburg GmbH
5 <120> TITLE OF INVENTION: Novel surface protein (HBsAg) variant of the Hepatitis B
virus
7 <130> FILE REFERENCE: MA 1252
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/561,345
C--> 9 <141> CURRENT FILING DATE: 2005-12-20
9 <150> PRIOR APPLICATION NUMBER: DE 10328080.4
10 <151> PRIOR FILING DATE: 2003-06-20
12 <160> NUMBER OF SEQ ID NOS: 26
14 <170> SOFTWARE: PatentIn version 3.2
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 462
18 <212> TYPE: DNA
19 <213> ORGANISM: Hepatitis B virus
21 <400> SEQUENCE: 1
22 gggggatcac ccgtgtgtct tggccaaaat tgcagtgccc caacctccaa tcactcacca      60
24 acctcctgtc ctccaatttg tcctgggttat cgctgggatgt gtctgcggcg ttttatcata      120
26 ttctctttca tcctgtctgt atgcctcatc ttcttattgg ttcttctgga ttatcaaggt      180
28 atgttgcccc tttgtcctct aattccagga tcaacaagaa ccagtacggg acaatgcaaa      240
30 acctgcacga ctctgtctca aggcaactct atgtttccct catgttgctg tacaaaacct      300
32 acggatggaa attgcacctg tattcccatc ccattgtcct gggctttcgc aaaataccta      360
34 tgggtgtggg cctcagtcctg tttctcttgg ctcagtttac tagtgccatt tgttcgggtg      420
36 ttcgtagggc ttccccccac tgtttggtct tcagctatat gg                        462
39 <210> SEQ ID NO: 2
40 <211> LENGTH: 225
41 <212> TYPE: DNA
42 <213> ORGANISM: Hepatitis B virus
44 <400> SEQUENCE: 2
45 ccaggatcaa caagaaccag tacgggacaa tgcaaaacct gcacgactcc tgctcaaggc      60
47 aactctatgt ttccctcatg ttgctgtaca aaacctacgg atggaaattg cacctgtatt      120
49 cccatcccat tgtcctgggc ttctgcacaaa tacctatggg tgtgggcctc agtccgtttc      180
51 tcttggtctca gtttactagt gccatttggt cgggtggttcg taggg                        225
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 180
56 <212> TYPE: DNA
57 <213> ORGANISM: Hepatitis B virus
59 <400> SEQUENCE: 3
60 ccaggatcaa caagaaccag tacgggacaa tgcaaaacct gcacgactcc tgctcaaggc      60
62 aactctatgt ttccctcatg ttgctgtaca aaacctacgg atggaaattg cacctgtatt      120
64 cccatcccat tgtcctgggc ttctgcacaaa tacctatggg tgtgggcctc agtccgtttc      180
67 <210> SEQ ID NO: 4
68 <211> LENGTH: 165
69 <212> TYPE: DNA
70 <213> ORGANISM: Hepatitis B virus

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72 <400> SEQUENCE: 4
73 ccaggatcaa caagaaccag tacgggacaa tgcaaacct gcacgactcc tgctcaaggc      60
75 aactctatgt ttccctcatg ttgctgtaca aaacctacgg atggaaattg cacctgtatt      120
77 cccatcccat tgtcctgggc ttctgcacaaa tacctatggg tgtgg                    165
80 <210> SEQ ID NO: 5
81 <211> LENGTH: 60
82 <212> TYPE: DNA
83 <213> ORGANISM: Hepatitis B virus
85 <400> SEQUENCE: 5
86 ccaggatcaa caagaaccag tacgggacaa tgcaaacct gcacgactcc tgctcaaggc      60
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 30
91 <212> TYPE: DNA
92 <213> ORGANISM: Hepatitis B virus
94 <400> SEQUENCE: 6
95 ccaggatcaa caagaaccag tacgggacaa                                30
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 153
100 <212> TYPE: DNA
101 <213> ORGANISM: Hepatitis B virus
103 <400> SEQUENCE: 7
104 agaaccagta cgggacaatg caaacctgc acgactcctg ctcaaggcaa ctctatgttt      60
106 ccctcatggt gctgtacaaa acctacggat ggaaattgca cctgtattcc catcccattg      120
108 tcctgggctt tcgcaaaaata cctatgggtg tgg                                153
111 <210> SEQ ID NO: 8
112 <211> LENGTH: 18
113 <212> TYPE: DNA
114 <213> ORGANISM: Hepatitis B virus
116 <400> SEQUENCE: 8
117 agaaccagta cgggacaa                                18
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 96
122 <212> TYPE: DNA
123 <213> ORGANISM: Hepatitis B virus
125 <400> SEQUENCE: 9
126 ttgtcctggg ctttcgcaaa atacctatgg gtgtgggcct cagtcggttt ctcttggtc      60
128 agtttactag tgccatttgt tcggtgggtc gtaggg                                96
131 <210> SEQ ID NO: 10
132 <211> LENGTH: 51
133 <212> TYPE: DNA
134 <213> ORGANISM: Hepatitis B virus
136 <400> SEQUENCE: 10
137 ttgtcctggg ctttcgcaaa atacctatgg gtgtgggcct cagtcggttt c                    51
140 <210> SEQ ID NO: 11
141 <211> LENGTH: 36
142 <212> TYPE: DNA
143 <213> ORGANISM: Hepatitis B virus
145 <400> SEQUENCE: 11
146 ttgtcctggg ctttcgcaaa atacctatgg gtgtgg                                36

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149 <210> SEQ ID NO: 12
150 <211> LENGTH: 154
151 <212> TYPE: PRT
152 <213> ORGANISM: Hepatitis B virus
154 <400> SEQUENCE: 12
156 Gly Gly Ser Pro Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser
157 1 5 10 15
160 Asn His Ser Pro Thr Ser Cys Pro Pro Ile Cys Pro Gly Tyr Arg Trp
161 20 25 30
164 Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Cys
165 35 40 45
168 Leu Ile Phe Leu Leu Val Leu Leu Asp Tyr Gln Gly Met Leu Pro Val
169 50 55 60
172 Cys Pro Leu Ile Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys
173 65 70 75 80
176 Thr Cys Thr Thr Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys
177 85 90 95
180 Cys Thr Lys Pro Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu
181 100 105 110
184 Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp Ala Ser Val Arg Phe
185 115 120 125
188 Ser Trp Leu Ser Leu Leu Val Pro Phe Val Arg Trp Phe Val Gly Leu
189 130 135 140
192 Ser Pro Thr Val Trp Leu Ser Ala Ile Trp
193 145 150
196 <210> SEQ ID NO: 13
197 <211> LENGTH: 75
198 <212> TYPE: PRT
199 <213> ORGANISM: Hepatitis B virus
201 <400> SEQUENCE: 13
203 Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
204 1 5 10 15
207 Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
208 20 25 30
211 Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe
212 35 40 45
215 Ala Lys Tyr Leu Trp Val Trp Ala Ser Val Arg Phe Ser Trp Leu Ser
216 50 55 60
219 Leu Leu Val Pro Phe Val Arg Trp Phe Val Gly
220 65 70 75
223 <210> SEQ ID NO: 14
224 <211> LENGTH: 60
225 <212> TYPE: PRT
226 <213> ORGANISM: Hepatitis B virus
228 <400> SEQUENCE: 14
230 Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
231 1 5 10 15
234 Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
235 20 25 30

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238 Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe
239      35      40      45
242 Ala Lys Tyr Leu Trp Val Trp Ala Ser Val Arg Phe
243      50      55      60
246 <210> SEQ ID NO: 15
247 <211> LENGTH: 55
248 <212> TYPE: PRT
249 <213> ORGANISM: Hepatitis B virus
251 <400> SEQUENCE: 15
253 Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
254 1      5      10      15
257 Pro Ala Gln Gly Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro
258      20      25      30
261 Thr Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe
262      35      40      45
265 Ala Lys Tyr Leu Trp Val Trp
266      50      55
269 <210> SEQ ID NO: 16
270 <211> LENGTH: 20
271 <212> TYPE: PRT
272 <213> ORGANISM: Hepatitis B virus
274 <400> SEQUENCE: 16
276 Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr
277 1      5      10      15
280 Pro Ala Gln Gly
281      20
284 <210> SEQ ID NO: 17
285 <211> LENGTH: 10
286 <212> TYPE: PRT
287 <213> ORGANISM: Hepatitis B virus
289 <400> SEQUENCE: 17
291 Pro Gly Ser Thr Arg Thr Ser Thr Gly Gln
292 1      5      10
295 <210> SEQ ID NO: 18
296 <211> LENGTH: 51
297 <212> TYPE: PRT
298 <213> ORGANISM: Hepatitis B virus
300 <400> SEQUENCE: 18
302 Arg Thr Ser Thr Gly Gln Cys Lys Thr Cys Thr Thr Pro Ala Gln Gly
303 1      5      10      15
306 Asn Ser Met Phe Pro Ser Cys Cys Cys Thr Lys Pro Thr Asp Gly Asn
307      20      25      30
310 Cys Thr Cys Ile Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu
311      35      40      45
314 Trp Val Trp
315      50
318 <210> SEQ ID NO: 19
319 <211> LENGTH: 6
320 <212> TYPE: PRT

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321 <213> ORGANISM: Hepatitis B virus
323 <400> SEQUENCE: 19
325 Arg Thr Ser Thr Gly Gln
326 1 5
329 <210> SEQ ID NO: 20
330 <211> LENGTH: 36
331 <212> TYPE: PRT
332 <213> ORGANISM: Hepatitis B virus
334 <400> SEQUENCE: 20
336 Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp Ala
337 1 5 10 15
340 Ser Val Arg Phe Ser Trp Leu Ser Leu Leu Val Pro Phe Val Arg Trp
341 20 25 30
344 Phe Val Gly Leu
345 35
348 <210> SEQ ID NO: 21
349 <211> LENGTH: 20
350 <212> TYPE: PRT
351 <213> ORGANISM: Hepatitis B virus
353 <400> SEQUENCE: 21
355 Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp Ala
356 1 5 10 15
359 Ser Val Arg Phe
360 20
363 <210> SEQ ID NO: 22
364 <211> LENGTH: 15
365 <212> TYPE: PRT
366 <213> ORGANISM: Hepatitis B virus
368 <400> SEQUENCE: 22
370 Pro Ile Pro Leu Ser Trp Ala Phe Ala Lys Tyr Leu Trp Val Trp
371 1 5 10 15
374 <210> SEQ ID NO: 23
375 <211> LENGTH: 22
376 <212> TYPE: DNA
377 <213> ORGANISM: Artificial Sequence
379 <220> FEATURE:
380 <223> OTHER INFORMATION: Primer 1
382 <400> SEQUENCE: 23
383 gggtcaccat attcttggga ac 22
386 <210> SEQ ID NO: 24
387 <211> LENGTH: 26
388 <212> TYPE: DNA
389 <213> ORGANISM: Artificial Sequence
391 <220> FEATURE:
392 <223> OTHER INFORMATION: Primer 2
394 <400> SEQUENCE: 24
395 tatacccaaa gacaaaagaa aattgg 26
398 <210> SEQ ID NO: 25
399 <211> LENGTH: 21

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**VERIFICATION SUMMARY**

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Input Set : A:\05552.1463 Sequence Listing.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date